

FIGURE 1

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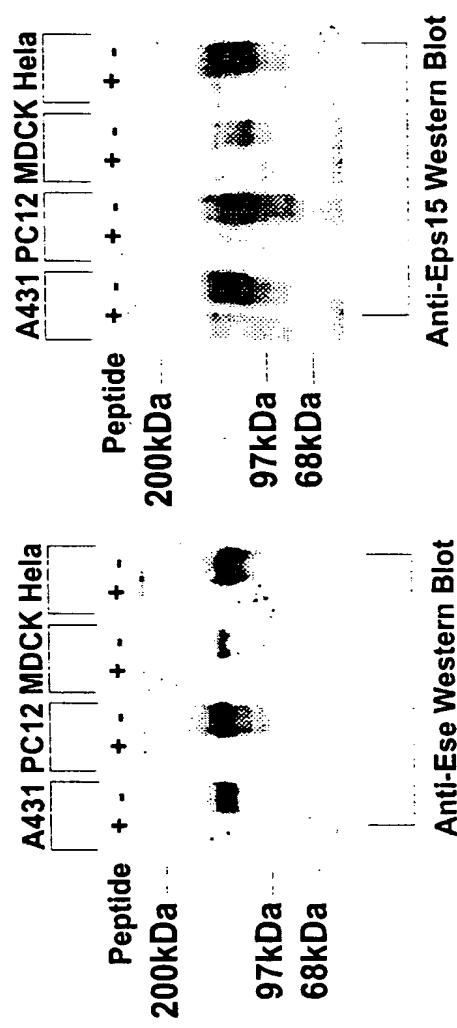
**Anti-Ese1 Immunoprecipitations**

FIGURE 2A

Ese1L:



Ese2L:



Ese1 1204 ..... LTTDMDPSQQWCSDLHLLDMLTPTERKRQGYIHELIIVTEENYVN-DLQLV 1252

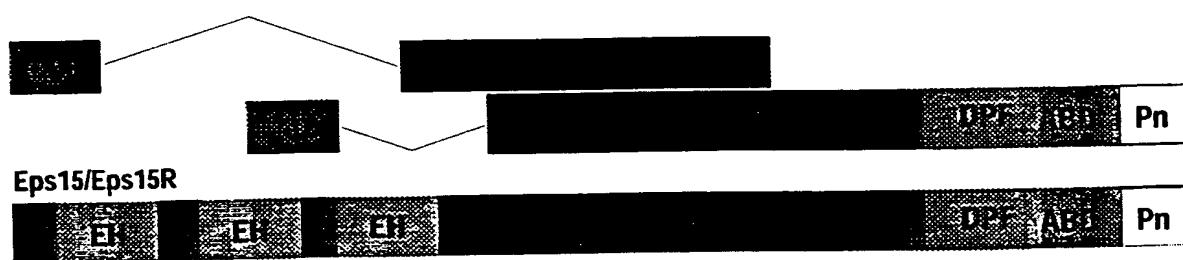
Ese2 1143 ..... MTTDSDPSQQWCADLQALDTMQPTERKRQGYIHELIQTEERYMDDDLQLV 1192

**DBL** \_\_\_\_\_  
TEIFQKPLTESELLTEKEVAMIFVNWKELIMCNIKLLKALRVRKKMSGEK 1302:  
IEVFQKRMAESGFLTEADMALIFVNWKELIMSNTKLLRALRVRKKTGGEK 1242**MPVKMIGDILSAQLPHMOPYIRFCSCQLNNGAALIQQKTDEAPDFKEFVKR** 1352:  
**MPVQMIGDILAAELSHMOAYIRFCSCQLNNGATLLQQKTDEDTDFKEFLKK** 1292**LAMDPRCKGMPLSSFILKPMORVTRYPLIIKNILENTPENHPDHSHLKHA** 1402:  
**LASDPRCKGMPLSSFLLKPMQRITRYPLIIRSILENTPQSHVDHSSLKLA** 1342**LEKAEELCSQVNEGVREREKNSDRLEWIQAHVQCEGLSEQLVFNSVTNCLG** 1452:  
**LEKAEELCSQVNEGVREREKNSDRLEWIQAHVQCEGLAEQLIFNSLTNCLG** 1392**PH** \_\_\_\_\_  
PRKFHSGKLYAKSNKELYGFLFNDLLLTOITKP-LGSSCTDKVFSPK 1501:  
PRKLLHSGKLYTKSNKELHAFLFNDLLLTYLVRQFAAASGHEKLFNSK 1442**SNLQYKMYKTPIFLNEVLVKLPTDPSGDEPIFHISHIDRVYTLRAESINE** 1551:  
**SSAQFRMYKTPIFLNEVLVKLPTDPSGDEPVFHISHIDRVYTLRTDNINE** 1492**C2** \_\_\_\_\_  
RTAWVQKIKAASELYIETEKKKREKAYLVRQRATGIGRLMVNVVEGIEL 1601:  
RTAWVQKIKGASEQYIDTEKKKREKAYQARSQKTSGIGRLMVHVIEATEL 1542**KPCRSHGKSNPYCEVTMGSQCHITKTIQDTLNPKWNSNCQFFIRDLEQEV** 1651:  
**KACKPNGKSNPYCEVSMGSQSYTTRTLQDTLNPKWNFNCQFFIKDLYQDV** 1592**LCITVFERDQFSPDDFLGRTEIRVADIKKDQGSKGPKVTKCLLLHEVPTGE** 1701:  
**LCLTMFDRDQFSPDDFLGRTEVPVAKIRTEQESKGPTTRLLLHEVPTGE** 1642

IVVRLDLQLFDEP 1714

:  
VVVRFDLQLFEQKTLL 1658

FIGURE 2B

**A) Yeast two hybrid screen: Eps15 and Eps15R bind the Ese1 coiled-coil domain****FIGURE 3A**

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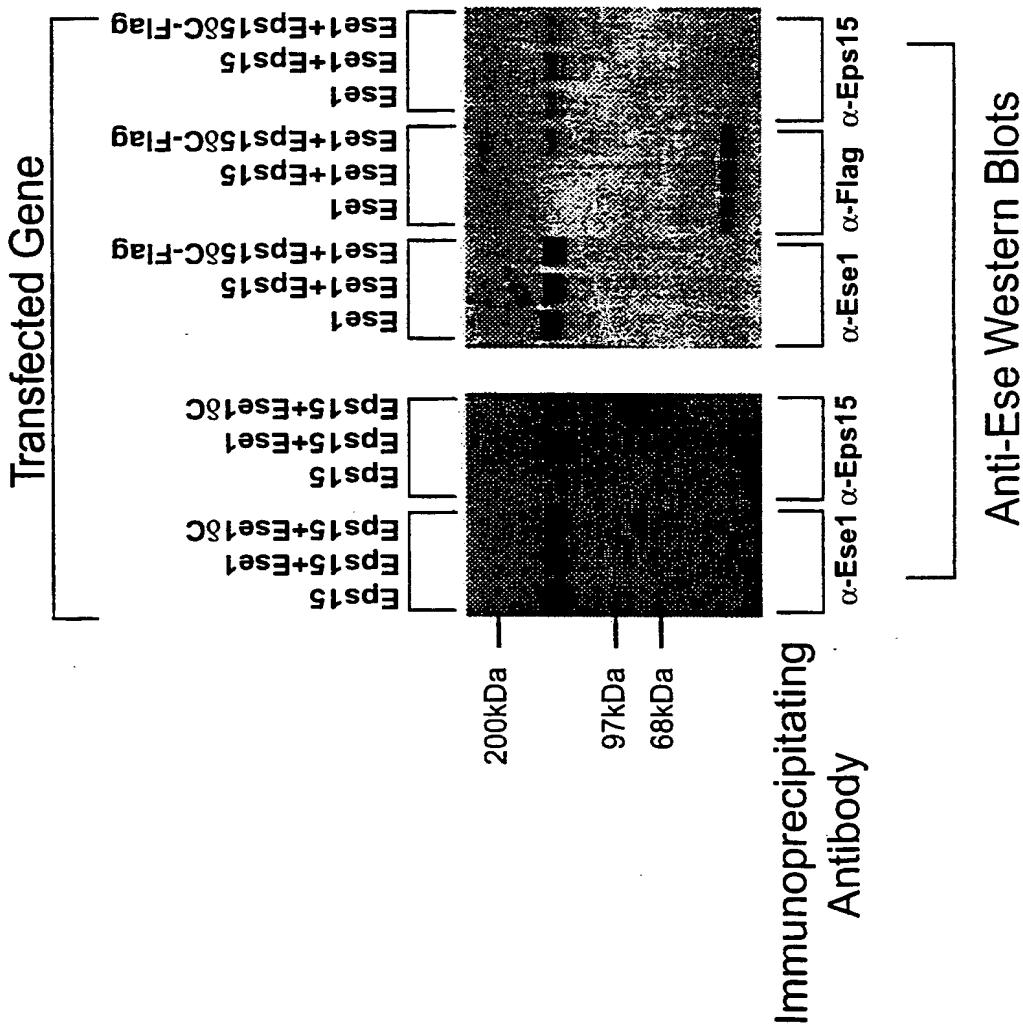


FIGURE 3B

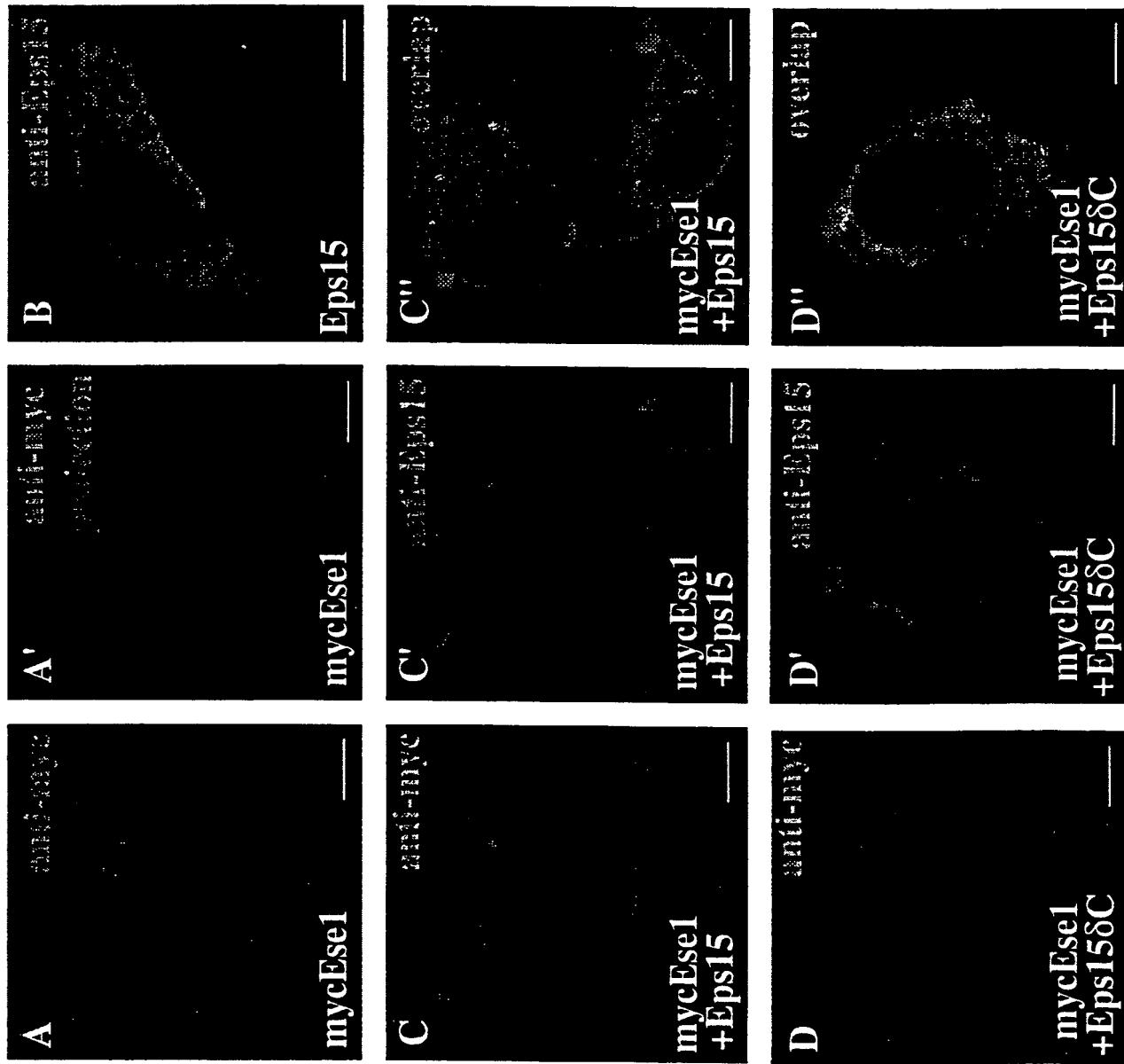
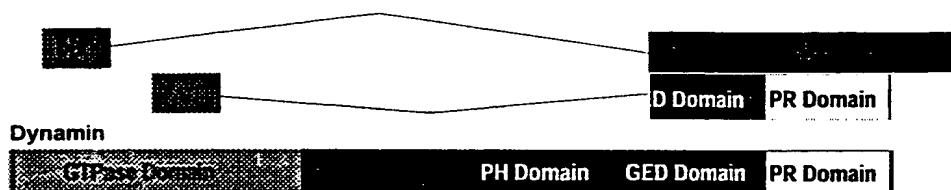
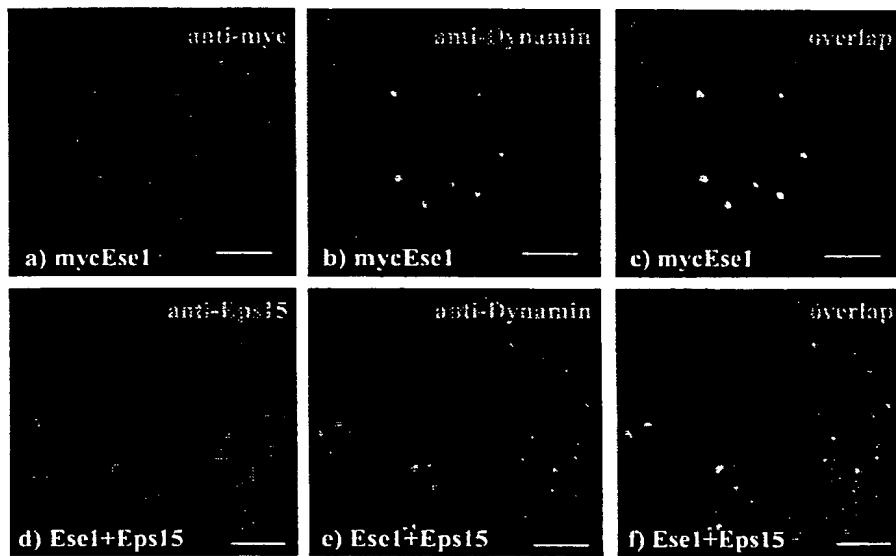


FIGURE 4

**A) Yeast two hybrid screen: Dynamin binds the Ese1 SH3 domains****FIGURE 5A****B) Ese1 overexpression recruits endogenous Dynamin****FIGURE 5B**

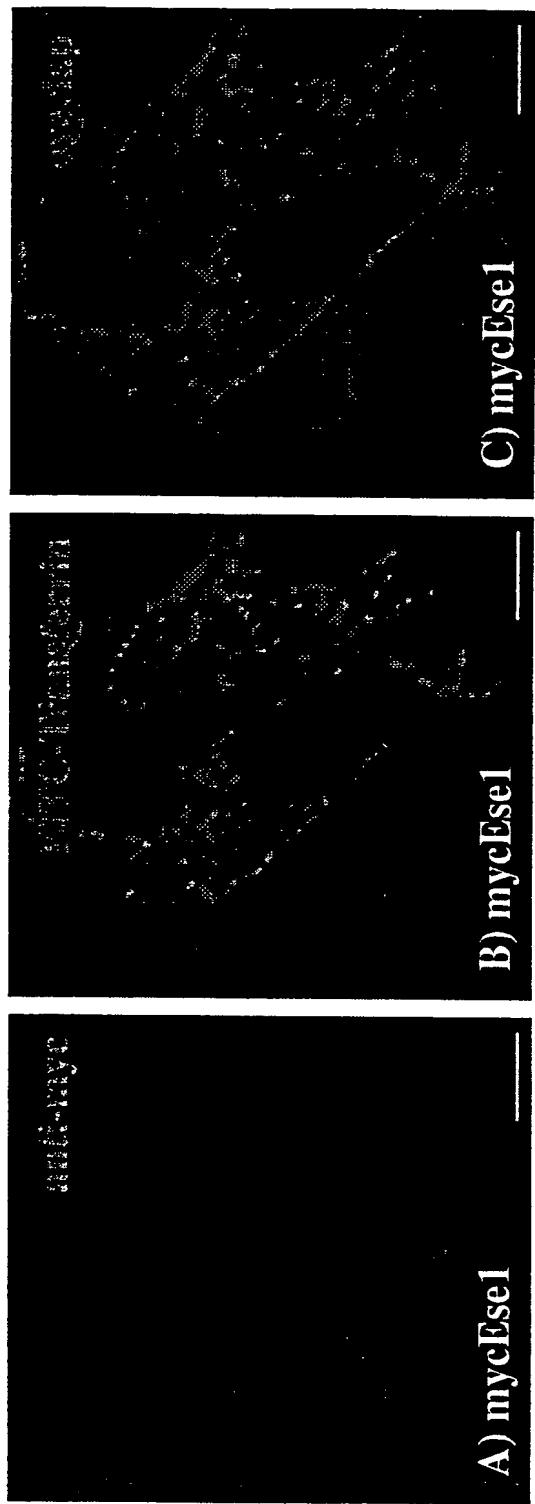


FIGURE 6

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**Model: The Ese:Eps15 complex recruits critical components  
for coated pit formation and scission**

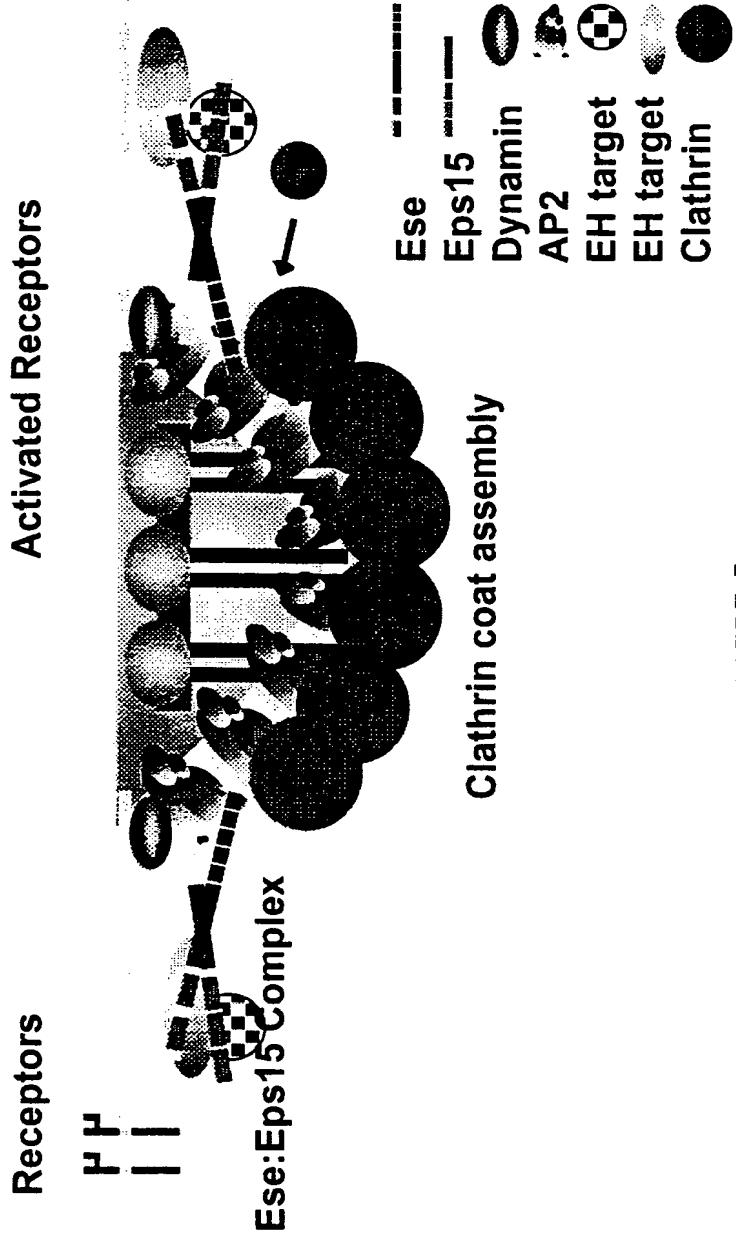


FIGURE 7